

Abstract of the Disclosure

A filter device for temporary placement of a filter in an artery or vein is disclosed. The devices include (1) an elongate tubular member having a single or double side-wire loop, (2) an elongate member having a filter bonded to a circular rim joined by a plurality of tethers and an independently moveable tether, and (3) an elongate member having a parachute filter joined by a plurality of flexible struts. The filter conforms to the interior of a vessel wall when expanded and contracts to a consistent diameter without bunching when stowed. The filter devices may act as guidewires for guiding a therapeutic catheter to a region of interest within a vessel. Methods of using the filter device to entrap and remove embolic material from a vessel during endovascular procedures are also disclosed.